

## LOW-CURRENT POGO PROBE CARD

## ABSTRACT

5 A low-current pogo probe card for measuring  
currents down to the femtoamp region includes a laminate  
board having a layer of conductive traces interposed  
between two dielectric layers. A plurality of probing  
devices, such as ceramic blades, are edge-mounted about a  
central opening so that the probing needles or needles  
10 included therein terminate below the opening in a pattern  
suitable for probing a test subject workpiece. A plural-  
ity of pogo pin receiving pad sets, each including a  
guard pad, occupy the periphery of the board. Each guard  
pad is electrically connected to a trace from the layer  
15 of conductive traces. The pad sets may be connected to  
the probing devices by low noise cables or traces. Air  
trenches separate the pad sets for reducing cross talk  
and signal settling times.